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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,434	02/28/2002	William L. Tonar	GEN-001323C3	4510
30981 King & Partners	7590 05/15/200 s, PLC	EXAMINER		
170 College Av		TOSCANO, ALICIA		
	SUITE 230 HOLLAND, MI 49423			PAPER NUMBER
			1796	
			MAIL DATE	DELIVERY MODE
			05/15/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/085,434	TONAR ET AL.
Office Action Summary	Examiner	Art Unit
	Alicia M. Toscano	1796
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPUBLICHEVER IS LONGER, FROM THE MAILING IF Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory perior Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 1.136(a). In no event, however, may a reply be tild will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 16. 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allow closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 3-69 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdrest is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers 9) The specification is objected to by the Examir	awn from consideration. /or election requirement.	
10) The drawing(s) filed on is/are: a) according to the drawing and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	ecepted or b) objected to by the e drawing(s) be held in abeyance. Se ection is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bure. * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat fority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/16/09 has been entered.

Priority

- 2. Applicant's petition for unintentionally delayed claim to priority has been granted, as such the instant case has an effective filing date of 3/15/96.
- 3. Even in light of the above filing date the rejections set forth below stand. Tonar '283 now qualifies as a 102(e) reference. Rejections in view of Varaprasad still qualify as 102(b).
- 4. Applicant incorporates by reference and reinstates the traversal of the below rejections as set forth in Applicant's remarks dated 6/19/08, the Examiner disagrees with Applicant's arguments as previously set forth, i.e. Applicant argues the priority claims overcome Tonar, the Examiner disagrees as set forth above, and Applicant argues affirmative, positive limitations, which are permissible and pertinent and were requested by Examiner Tucker overcome Varaprasad, the Examiner disagrees, the clauses therein are product by process limitations and Applicant has not shown a

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different product has been formed. As such the rejections stand and are reiterated in their entirety below.

Terminal Disclaimer

5. As set forth previously: Terminal disclaimers have been approved and recorded over US 5928572 and US 6248263.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 3-69 are rejected under 35 U.S.C. 102(e) as being anticipated by Tonar (US 5679283).

This rejection is as set forth in the action dated 9/8/08, reiterated below in its entirety.

The applied reference has a common inventor/assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it

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constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Tonar discloses electrochromic layers and devices comprising them. Said devices comprise at least one transparent substrate coated with a layer of an electronically conducting coating, forming electrodes (Column 1 lines 47-55), and an electrochromic medium in between (abstract). The electrochromic medium is a crosslinked matrix (Column 6 line 42), wherein the polymers which are crosslinked may have a molecular weight of 2000 (Column 6 line 56) to 4800 (Column 12 line 54). Examiner finds 4800 to meet the "approximately 5000" requirement of the intervening claims. The crosslinking polymer is described as a free standing gel (Column 5 line 2) and does not significantly weep (Column 5 line 10), further meeting requirements of said component in claims 11-69. The elements discussed meet the limitations of claims 3-50. Since the elements of the device are met, the Examiner finds the "solid state" requirements of Claim 51 to be met. Regarding claims 52-69, use of about 50 wt% (Column 7 line 14), 19 wt% and 33 wt% (Table II) of the crosslinked matrix in the electrochromic medium is disclosed and thusly meets the limitations of the claims.

7. Claims 3-53, 54-56, 58-59, 61-62, 64-65 and 67-69 are rejected under 35 U.S.C. 102(b) as being anticipated by Varaprasad (EP 612826 A1).

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This rejection is as set forth in the action dated 9/8/08, reiterated below in its entirety.

Varaprasad discloses electrochromic polymeric films. Said films start as a monomer and are polymerized into polymers by exposure to electromagnetic radiation (abstract), resulting in a crosslinked matrix.

Pertaining to the independent claims the process of making the crosslinked matrix by crosslinking preformed non crosslinked polymer chains is viewed as product-by-process claims and hence the methods they are created by are not pertinent, unless applicant can show a different product is produced.

The MW requirements fall under the product by process claims, however even as such, the Examiner notes that the claimed MW ranges are met by use of PEG 200-8000 on pg 18 lines 14-16. Further, polymeric films may be prepared separately from the electrochromic device (Pg 20 lines 25-35), forming a free standing gel. The electrochromic polymeric medium is set between two conductive surfaces (pg 4 lines 19-20) wherein a coating of ITO may be deposited onto a substantially clear surface (pg 23 lines 56-58). It is the Examiner's position that the monomers of the crosslinking solution inherently act as a solvent for the various plasticizers and electrochromic elements of the composition, since the solution is homogeneous prior to crosslinking. Further, since the compositional elements are met, the Examiner finds the crosslinked matrix to inherently have free standing and non weeping characteristics.

Regarding claims 53, 54-56, 58-59, 61-62, 64-65 and 67-69, use of 21% monomer in the composition, which would result in 21% crosslinked matrix in the end

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product, is disclosed in Example 4 preparation A, meeting the less than 50 and 33 wt% requirements.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* **v.** *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 8. Claims 54, 57, 60, 63, 66 and 69 are rejected under 35 U.S.C. 103(a) as being unpatentable over Varaprasad.

This rejection is as set forth in the action dated 9/8/08, reiterated below in its entirety.

Varaprasad includes elements as set forth above. Varaprasad discloses the use of 21 wt% monomer in the crosslinking solution. Once crosslinked the composition

would thusly have 21 wt% crosslinked matrix. Varaprasad does not disclose the use of less than 19 wt% of crosslinked matrix, as required by the above claims.

It has been held that a prima facie case of obviousness exists where the claimed ranges and prior art ranges do not overlap but are close enough that one skilled in the art would have expected them to have the same properties, see Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985). It is the Examiner's position that there would be no difference between 19 wt% and 21 wt% crosslinked matrix, and thusly the range is found to be met by Varaprasad.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia M. Toscano whose telephone number is (571)272-2451. The examiner can normally be reached on M-F 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski can be reached on 571-272-1302. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

AMT

/Randy Gulakowski/ Supervisory Patent Examiner, Art Unit 1796